

Future Force Warrior and the Ground Soldier System



## Mission

**Develop and field a lightweight, overwhelmingly lethal, fully integrated individual combat system, including head-to-toe individual protection, networked communications, Soldier-worn power sources, and enhanced human performance.**

## Description and Specifications

The **Ground Soldier System (GSS)** is the next generation of the Land Warrior integrated, modular fighting system. GSS will be completely integrated within the Future Combat Systems (FCS) Unit of Action (UA). GSS will include the following capabilities:

- An ultra-lightweight, low bulk, multi-functional, full spectrum protective combat ensemble
- Networked, robust individual and team communications
- State-of-the-art distributed and fused sensors, organic tactical intelligence collection assets, and enhanced situational understanding
- Interoperability with FCS network, platforms, and robotics to produce netted fires and overmatched lethality
- Embedded training, on-the-move planning and rehearsal
- Seventy-two hour continuous autonomous team operations using high-density, low weight/volume, self-generating/re-generating, reliable, safe power sources
- Unconstrained vertical and lateral combat movement capability
- Small combat unit synergistic capabilities and heightened team effectiveness
- Optimized cognitive and physical fightability, on-board physiological/medical sensor suite with enhanced prompt casualty care.

GSS will employ a system-of-systems approach, optimizing and integrating capabilities while reducing the Soldier's

combat load and logistical footprint. Soldier system spiral development begun with Land Warrior will continue with GSS, integrating those successful Soldier system technologies developed in the Future Force Warrior Science and Technology program. GSS will eventually provide warrior system capabilities for all dismounted, maneuver support, and maneuver sustainment Future Force Soldiers.

*In order to comply with FY05 Congressional language mandating consolidation of the Future Force Warrior Advanced Technology Demonstration (FFW ATD) with Land Warrior, Project Manager Soldier Warrior and Technical Program Office FFW personnel have consolidated efforts to jointly develop the Ground Soldier System (GSS). GSS requirements are described in one of four Capability Development Documents (CDDs) that comprise the Soldier as a system. At the end of the ATD, GSS will transition to system development and demonstration (SDD) and be fielded to the Future Force in FY10. GSS integrates Soldier system components into a lightweight, overwhelmingly lethal, fully integrated individual combat system. It includes head-to-toe individual protection, networked communications for increased situational awareness and lethality, extended duration Soldier-worn power sources, physiological monitoring, embedded training capability, and enhanced individual and team performance.*